

# Gluep Engineering Design Project

Students were tasked to redesign a toy called "Gluep". A toy company was not satisfied with their current design. They want their product to be bouncier.



The recipe for Gluep was modified by each group



Students had time and budget constraints

Gluep Production Order Form

Team Number and Name: 2  
 Team Members Name: Giulian, Cayran + Adam

Item	Quantity	Unit Price	Total Cost	SA Details (fill in when purchasing)
Free Supplies: 2 paper cups, 10 g sodium borate, 10 g glue, and 2 straws		\$0.00	\$0.00	
Sodium Borate	20g	Budget: \$0.10 per 5 g		<input checked="" type="checkbox"/>
		Actual: \$0.30 per 5 g	\$0.90	
White Glue	150g	Budget: \$3 per bottle (-1.20 off) (No sharing of bottle costs)	\$1.00	<input checked="" type="checkbox"/>
		Actual: \$4.50 per bottle		
Straws		Budget: \$0.10 each		
		Actual: \$0.20 each		
Paper Cups	3-pc	Budget: \$0.25 each	\$0.75	<input checked="" type="checkbox"/>
		Actual: \$0.30 each		
Checkout Cost (lab station, balance, disposal, etc. water, etc.)		\$0.15 per 15 minutes	\$1.13	
			0.68	
			5.85	
			30cm	

Winner!

Observations:

Glue - 15g    Water - 15g  
 Borate - 10g    Water - 10g

- Added 10g water to borate
- Added the 10g water + 10g borate to glue
- Added extra 15g water
- Not as much bounce
- Very sticky

Trial 3

Observations:

- Very soft and squishy
- Good texture
- Not much bounce, 4cm

Trial 4

Observations:

Glue - 15g    Water - 7g  
 Borate - 15g    Water - 5g

A Bounce Off was performed. The winning group had a Gluep that bounced 30 cm.

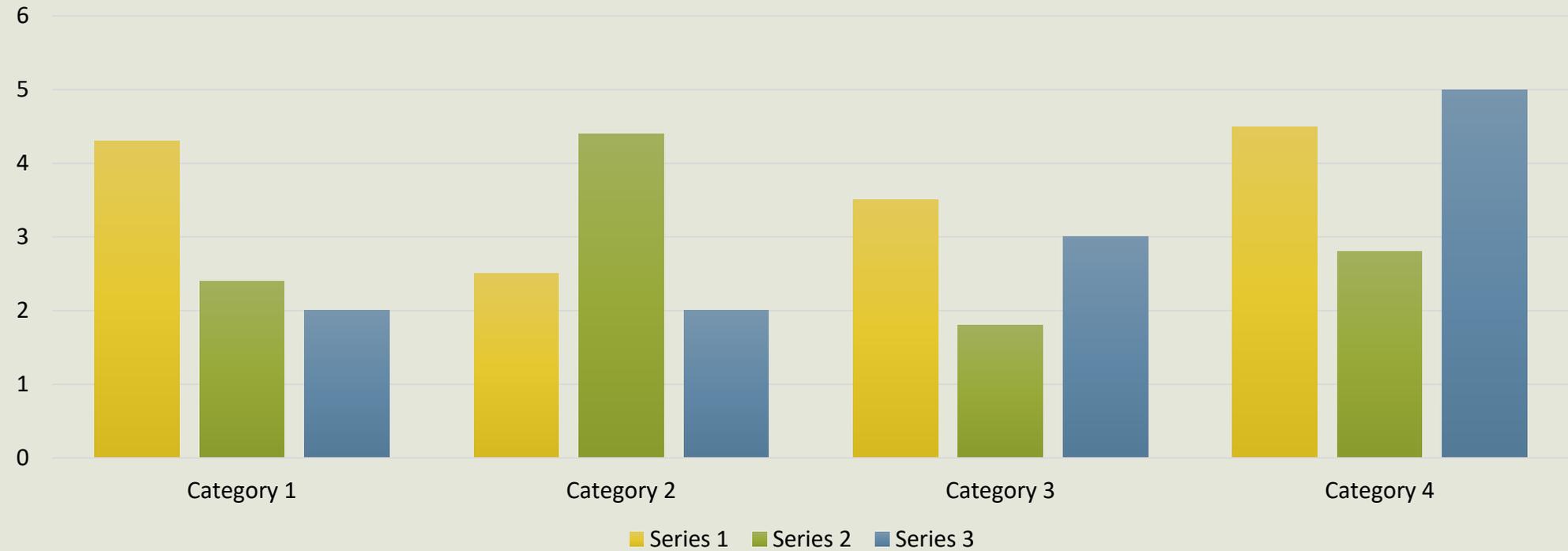


# Title and Content Layout with List

- Add your first bullet point here
- Add your second bullet point here
- Add your third bullet point here

# Title and Content Layout with Chart

**Chart Title**



## Two Content Layout with Table

- First bullet point here
- Second bullet point here
- Third bullet point here

<b>Class</b>	<b>Group 1</b>	<b>Group 2</b>
Class 1	82	95
Class 2	76	88
Class 3	84	90

# Title and Content Layout with SmartArt

## Step 1 Title

- Task description
- Task description
- Task description
- Task description

## Step 2 Title

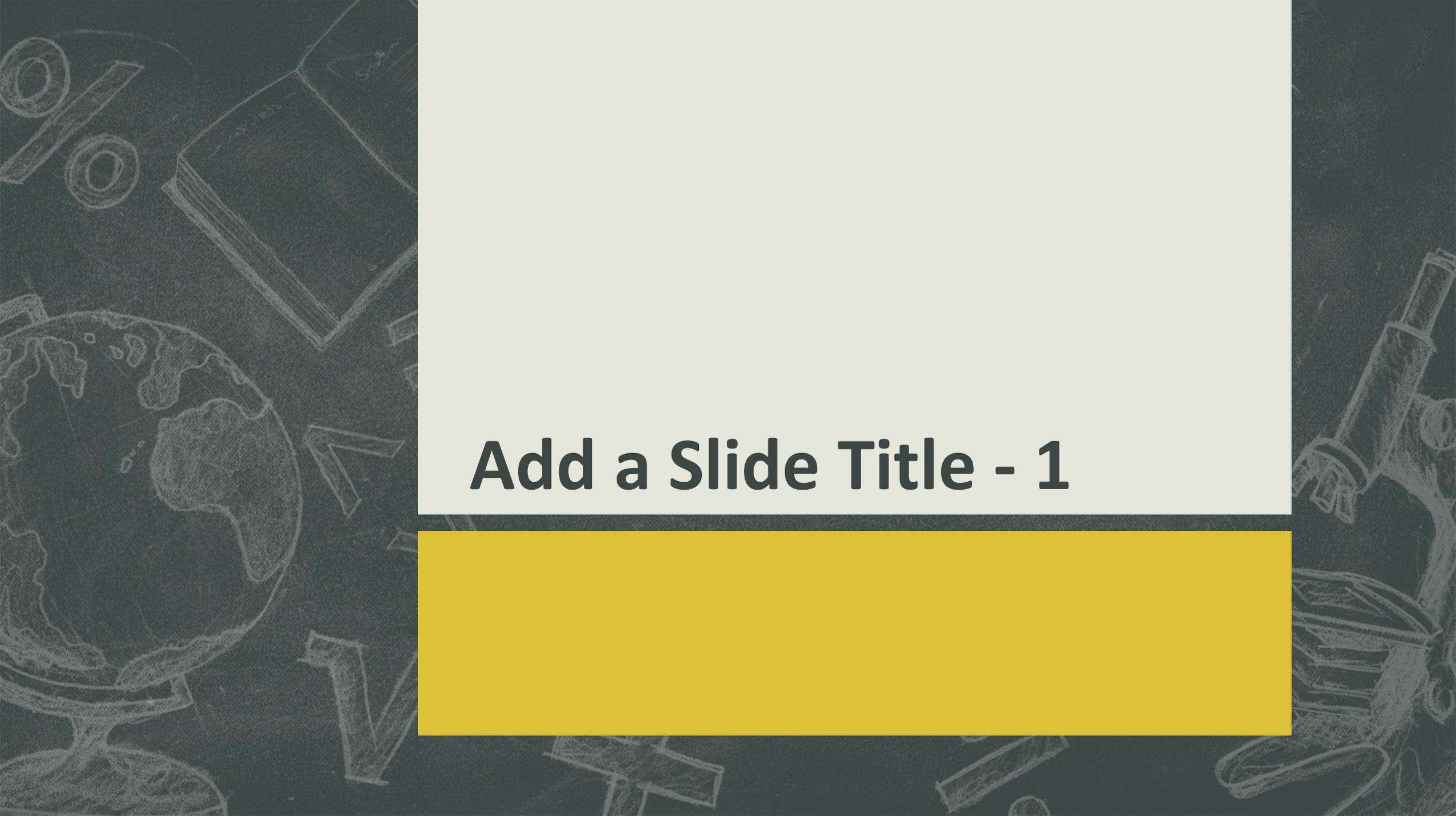
- Task description
- Task description
- Task description

## Step 3 Title

- Task description
- Task description

## Step 4 Title

- Task description
- Task description



**Add a Slide Title - 1**

Add a Slide Title - 2

Add a Slide Title - 3



Add a Slide Title - 4

Add a Slide Title - 5